

Mineral Industry Surveys

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CHROMIUM IN DECEMBER 2018

Reported consumption of chromium, on a gross weight basis, in December 2018 increased slightly compared with reported consumption of chromium in November 2018, and decreased slightly compared with consumption in December 2017. High-carbon ferrochromium accounted for 86% of the chromium material consumed in December 2018. Stainless steel was the leading end use, consuming 89% of chromium materials (tables 1,2). Consumer stocks increased by 6% compared with those of the previous month and increased by 15% compared with those of December 2017.

Stainless steel production was 198,000 metric tons (t) in December 2018, a slight decrease compared with production in November 2018, and a decrease of 12% compared with

production in December 2017. However, stainless steel production in 2018 increased slightly compared with production in 2017. Government stockpile inventories for ferroalloys and chromium metal were slightly less and unchanged compared with those of November 2018, respectively. Compared with those of December 2017, Government stockpile inventories for chromium metal were essentially unchanged and ferroalloys inventories decreased by 7% (table 3).

Imports of chromite ore, chromium ferroalloys, chromium metal, and stainless steel commonly fluctuate from month to month (table 1). Stainless steel imports in December 2018 increased by 7% compared with imports in November 2018

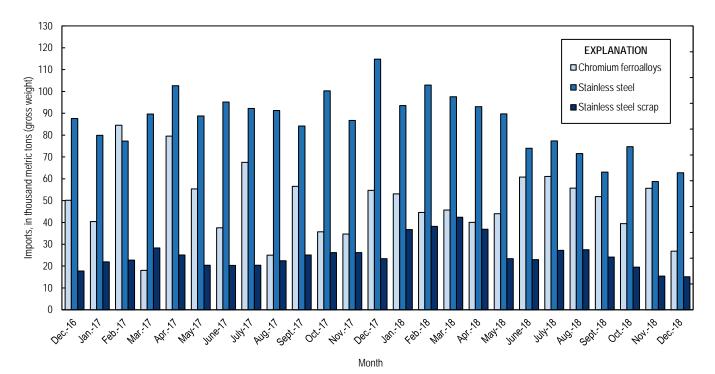


Figure 1. Chromium ferroalloys and stainless steel imports from December 2016 through December 2018. Source: U.S. Census Bureau.

and decreased by 46% compared with imports in December 2017 (fig. 1, table 1).

Exports of chromite ore, chromium ferroalloys, chromium metal, and stainless steel also frequently fluctuate from month to month (table 1, table 4). Stainless steel exports in December 2018 decreased by 16% compared with exports in November 2018 (table 1) and decreased by 48% compared with those of December 2017.

For December 2018, the leading import sources for ferrochromium (FeCr) into the United States were, in descending order of quantity by gross weight and chromium content, South Africa, Albania, and Russia (table 6), whereas the leading import sources for chromium metal were the United Kingdom, France, and China (table 7).

According to CRU Group (2019), the U.S. high-carbon FeCr (60%–70% chromium) average price was 107.813 cents per pound of contained chromium in December 2018, a 6% decrease from the average price in November 2018 and a 25% decrease from the average price in December 2017(fig. 2). The high-carbon FeCr price began declining in September 2018 and continued to drop through December 2018.

The U.S. charge-grade FeCr (47%–55% chromium) average price was 134.500 cents per pound of contained chromium in December 2018, unchanged since March 2017. Prices for both forms of ferrochromium increased sharply from November 2016 through January 2017 before leveling off in early 2017 (fig. 2).

Industry News

Eastern Platinum Ltd. (Canada) and its subsidiary Barplats Mine (Pty) Ltd. (South Africa), together known as Eastplats, began commissioning its chrome plant at the Crocodile River Mine in South Africa. In addition, the chrome processing unit, called the "Chrome Circuit," which was developed to remine and process tailings at the Crocodile River Mine, produced its first chrome concentrate. Commercial production was expected to begin in early 2019, and the plant anticipated being at its full production rate by the end of the second quarter of 2019 (Eastern Platinum Ltd., 2018).

References Cited

CRU Group, 2019, CRU prices_chrome_historical

- data_02_jan_2019_dec_avg: CRU Group, January 2. (Accessed March 13, 2019, via http://www.crugroup.com/.)
- Eastern Platinum Ltd., 2018, Eastplats announces first chrome concentrate at its Barplats Zandfontein UG2 tailings retreatment operations: Vancouver, Canada, Eastern Platinum Ltd. press release, December 18. (Accessed March 13, 2019, at https://eastplats.com/first-chrome-concentrate/.)

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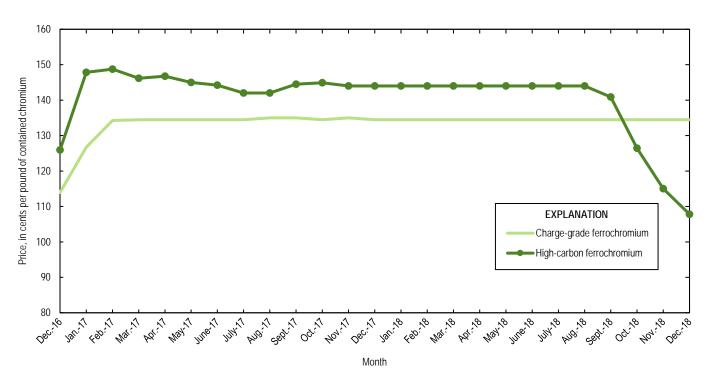


Figure 2. Average monthly prices for U.S. charge-grade and high-carbon ferrochromium from December 2016 through December 2018. Source: CRU Group.

TABLE 1 U.S. SALIENT CHROMIUM STATISTICS¹

(Metric tons, gross weight)

	2017		2018		
	January-				January–
	December ^p	October	November	December	December ²
Production, stainless steel ³	2,750,000	234,000	193,000	198,000	2,810,000
Components of U.S. supply:					
Stainless steel scrap receipts	892,000 r	75,900 ^r	75,200 ^r	74,900	891,000
Stainless steel scrap consumption	1,330,000 r	105,000 ^r	110,000 r	110,000	1,320,000
Imports for consumption:					
Chromite ore	130,000	8,970	361	39,200	197,000
Ferrochromium:					
More than 4% carbon	507,000	37,100	51,500	14,300	492,000
More than 3% but not more than 4% carbon	6,740	108		7,450	8,610
More than 0.5% but not more than 3% carbon	2,820	202	267	463	4,130
Not more than 0.5% carbon	51,600	2,030	3,350	2,340	56,000
Ferrochromium silicon	21,500	40	508	2,250	18,000
Total ferroalloy imports	590,000	39,500	55,700	26,800	579,000
Chromium metal ⁴	14,500	1,460	1,100	1,100	18,000
Stainless steel	1,100,000	74,700	58,700	62,700	959,000
Stainless steel scrap	282,000	19,500	15,400	15,100	329,000
Distribution of U.S. supply:					
Consumption, industry, chromium ferroalloys and metal	421,000	31,100	32,400	32,900	391,000
Exports:					
Chromite ore	11,100	637	843	741	6,280
Chromium ferroalloys:					
High-carbon ferrochromium	1,240	93	34	61	731
Low-carbon ferrochromium	854	313	65	27	1,740
Ferrochromium silicon	15		24	3	60
Total ferroalloy exports	2,110	406	123	90	2,530
Chromium metal	622	43	43	29	514
Stainless steel	974,000	32,500	36,000	30,100	650,000
Stainless steel scrap	488,000	85,900	48,200	43,100	778,000
Stocks at end of period:					
Consumer, industry, chromium ferroalloys and metal	9,830	10,500	10,600	11,300	11,300
Government stockpile:					
Chromium ferroalloys	76,800	72,100	71,700	71,200	71,200
Chromium metal	3,860	3,850	3,850	3,850	3,850

^pPreliminary. ^rRevised. -- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²May include revised data that are not broken out by specific month(s).

³Data on stainless steel production reported by American Iron and Steel Institute; monthly, quarterly, and year-to-date production of stainless and heat-resisting raw steel.

⁴Includes waste and scrap and other.

TABLE 2

U.S. REPORTED CONSUMPTION AND STOCKS OF CHROMIUM PRODUCTS^{1, 2}

		2018	
			January-
	November	December	December ³
Consumption by end use:			
Steel:			
Carbon steel	189	220	2,190
High-strength low-alloy steel	145	146	1,750
Stainless and heat-resisting steel	28,900	29,300	348,000
Unspecified steel ⁴	2,720	2,720	32,600
Superalloys	431	438	5,250
Other alloys and uses ⁵	96	102	1,150
Total	32,400	32,900	391,000
Total, chromium content	19,000	19,300	233,000
Consumption by material:			
Low-carbon ferrochromium	1,840	1,890	21,900
High-carbon ferrochromium	28,000	28,400	337,000
Ferrochromium silicon	W	W	W
Chromium metal	162	160	2,430
Chromite ore	16	16	124
Chromium-aluminum alloy	W	W	W
Other chromium materials	W	W	W
Total	32,400	32,900	391,000
Total, chromium content	19,000	19,300	233,000
Consumer stocks:			
Low-carbon ferrochromium	1,560	1,570	1,570
High-carbon ferrochromium	8,180	8,760	8,760
Ferrochromium silicon	761	836	836
Chromium metal	55	55	55
Chromium-aluminum alloy	W	W	W
Other chromium materials	W	W	W
Total	10,600	11,300	11,300
Total, chromium content	6,330	6,700	6,700

(Metric tons, gross weight unless otherwise noted)

W Withheld to avoid disclosing company proprietary data; included in "Total."

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes estimates.

³May include revised data that are not broken out by specific month(s).

⁴Includes electrical, full alloy, tool, and unspecified steel end uses.

⁵Includes cast irons, welding and alloy hard-facing rods and materials, wear- and corrosion-resistant alloys, and aluminum, copper, magnetic, nickel, and other alloys.

TABLE 3U.S. GOVERNMENT STOCKPILE INVENTORY OF
CHROMIUM MATERIALS1

(metric tons)

	Chromium f	ferroalloys	
	High-carbon	Low-carbon	
	ferro-	ferro-	Chromium
	chromium	chromium	metal
2017, December	48,300	28,500	3,860
2018:			
January	47,900	28,500	3,860
February	47,000	28,300	3,850
March	47,000	28,200	3,850
April	46,300	28,200	3,850
May	45,600	27,900	3,850
June	45,400	27,600	3,850
July	44,500	27,600	3,850
August	44,500	27,600	3,850
September	44,500	27,600	3,850
October	44,500	27,600	3,850
November	44,000	27,600	3,850
December	43,800	27,400	3,850

¹Data are rounded to no more than three significant digits.

Source: Defense Logistics Agency, DLA Strategic Materials.

TABLE 4 U.S. EXPORTS OF CHROMITE ORE, CHROMIUM FERROALLOYS, AND METAL $^{\rm 1}$

	Chrom	ite ore	Ch	Chromium ferroalloys ²			Chromium metal ³	
	Gross	V-1	Gross	Chromium		Gross	V-l	
	weight	Value	weight	content	Value	weight	Value	
	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)	(metric tons)	(thousands)	
2017:								
December	169	\$128	130	61	\$274	26	\$598	
January–December ⁴	11,100	4,760	2,110	956	3,270	622	14,400	
2018:								
January	192	142	61	27	88	38	875	
February	418	274	123	65	144	64	909	
March	575	416	41	22	50	21	604	
April	375	238	258	118	247	51	1,120	
May	983	398	204	90	365	55	1,300	
June	225	177	680	408	855	45	1,310	
July	811	456	255	153	420	41	1,090	
August	181	138	123	81	291	33	990	
September	294	395	165	99	222	53	1,280	
October	637	408	406	224	565	43	1,160	
November	843	398	123	68	231	43	982	
December	741	368	90	42	111	29	674	
January–December ⁴	6,280	3,810	2,530	1,400	3,590	514	12,300	

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Includes low- and high-carbon ferrochromium and ferrochromium silicon.

³Includes chromium metal, waste and scrap, and unwrought powders.

⁴May include revised data that are not broken out by specific month(s).

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF CHROMITE ORE, FERROCHROMIUM, AND CHROMIUM METAL $^{\rm 1}$

(Metric tons)

January- December January- November January- December January- December Chromite ore: Not more than 40% chromic oxide: $\overline{676}$ 27 205 462 Chromit oxide content 166 10 79 173 More than 40% but less than 46% chromic oxide: 166 10 79 173 More than 40% but less than 46% chromic oxide: 13,700 258 1,180 14,600 Chromic oxide content 6,150 113 541 6,590 46% or more chromic oxide: 116,000 76 37,800 182,000 Chromic oxide content 116,000 76 37,800 182,000 Chromic oxide content 130,000 361 39,200 197,000 Chromium: Low-carbon: ³ 130,000 361 39,200 197,000 Chromium content 33,900 2,400 1,620 38,800 More than 0.5% but not more than 3% carbon: 2,820 267 463 4,130 Chromium content 1,820 188 291		2017		2018	
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Gross weight $54,400$ $3,620$ $2,800$ $60,100$ Chromium content $35,700$ $2,590$ $1,910$ $41,400$ Medium-carbon: ⁴ $6,740$ $7,450$ $8,610$ Chromium content $3,370$ $3,830$ $4,560$ High-carbon: ⁵ $507,000$ $51,500$ $14,300$ $492,000$ Chromium content $272,000$ $28,500$ $7,980$ $268,000$ Total, all grades: $568,000$ $55,200$ $24,600$ $561,000$ Chromium content $311,000$ $31,100$ $13,700$ $314,000$ Chromium metal: 298 (6) 22 177	Chromium content	1,820	188	291	2,570
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High-carbon: ⁵ Gross weight 507,000 51,500 14,300 492,000 Chromium content 272,000 28,500 7,980 268,000 Total, all grades: 568,000 55,200 24,600 561,000 Chromium content 311,000 31,100 13,700 314,000 Chromium metal: 6,140 829 764 7,920 Waste and scrap 298 (6) 22 177	Gross weight	6,740		7,450	8,610
Gross weight 507,000 51,500 14,300 492,000 Chromium content 272,000 28,500 7,980 268,000 Total, all grades: 568,000 55,200 24,600 561,000 Chromium content 568,000 311,000 311,000 314,000 Chromium metal: 7,920 764 7,920 Waste and scrap 298 (6) 22 177		3,370		3,830	4,560
Gross weight 507,000 51,500 14,300 492,000 Chromium content 272,000 28,500 7,980 268,000 Total, all grades: 568,000 55,200 24,600 561,000 Chromium content 568,000 311,000 311,000 314,000 Chromium metal: 7,920 764 7,920 Waste and scrap 298 (6) 22 177	High-carbon: ⁵				
Total, all grades: 568,000 55,200 24,600 561,000 Chromium content 311,000 31,100 13,700 314,000 Chromium metal: 6,140 829 764 7,920 Waste and scrap 298 (6) 22 177		507,000	51,500	14,300	492,000
Gross weight 568,000 55,200 24,600 561,000 Chromium content 311,000 31,100 13,700 314,000 Chromium metal: 6,140 829 764 7,920 Waste and scrap 298 (6) 22 177	Chromium content	272,000	28,500	7,980	268,000
Chromium content 311,000 31,100 13,700 314,000 Chromium metal:	Total, all grades:				
Chromium metal:Unwrought powders6,1408297647,920Waste and scrap298(6)22177	Gross weight	568,000	55,200	24,600	561,000
Unwrought powders 6,140 829 764 7,920 Waste and scrap 298 (6) 22 177	Chromium content	311,000	31,100	13,700	314,000
Waste and scrap 298 (6) 22 177	Chromium metal:				
	Unwrought powders	6,140	829	764	7,920
Other then weste and coren and unwrought nowdors 8,000 268 215 0.040	Waste and scrap	298	(6)	22	177
Other man waste and scrap and unwrought powders 6,090 208 515 9,940	Other than waste and scrap and unwrought powders	8,090	268	315	9,940
Total, all grades 14,500 1,100 1,100 18,000	Total, all grades	14,500	1,100	1,100	18,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²May include revised data that are not broken out by specific month(s).

³Ferrochromium containing not more than 3% carbon.

⁴Ferrochromium containing more than 3% carbon but not more than 4% carbon.

⁵Ferrochromium containing more than 4% carbon.

⁶Less than ¹/₂ unit.

 TABLE 6

 U.S. IMPORTS FOR CONSUMPTION OF FERROCHROMIUM IN 2018, BY GRADE AND COUNTRY OR LOCALITY¹

		December			January–December ²			
	Gross	Chromium		Gross	Chromium			
	weight	content	Value ³	weight	content	Value ³		
Grade and country or locality	(metric tons)	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)		
High-carbon ferrochromium: ⁴		· · · · ·	· · · ·		· · · · ·	, , ,		
Albania	2,090	1,370	\$3,250	18,400	12,100	\$31,900		
Finland				9,000	4,800	10,600		
India	1,570	965	1,980	38,500	23,400	53,200		
Kazakhstan	1,050	730	2,010	39,900	27,800	74,700		
Mexico				40	30	103		
Oman	494	302	607	11,000	6,110	13,200		
Russia	974	667	1,680	29,200	20,200	54,100		
South Africa	7,870	3,770	7,360	300,000	147,000	320,000		
Sweden	268	178	479	1,050	705	1,970		
Turkey				1,730	1,120	2,990		
Zimbabwe				42,900	24,200	45,800		
Total	14,300	7,980	17,400	492,000	268,000	608,000		
Medium-carbon ferrochromium: ⁵								
India				1,160	728	1,630		
South Africa	7,450	3,830	7,930	7,450	3,830	7,930		
Total	7,450	3,830	7,930	8,610	4,560	9,560		
Low-carbon ferrochromium: ⁶				· · ·				
More than 0.5% but not more than 3% carbon								
Brazil				2,110	1,290	5,280		
China				119	74	342		
India				462	284	848		
Kazakhstan				428	303	1,200		
Russia	324	212	750	537	354	1,050		
South Africa	139	79	255	478	268	891		
Total	463	291	1,000	4,130	2,570	9,610		
Not more than 0.5% carbon:			,	,	,	- ,		
Brazil				1,320	806	3,560		
China				650	404	1,890		
Germany	941	653	3,110	10,200	7,120	33,500		
India				553	358	1,430		
Japan	299	210	1,250	3,230	2,280	13,200		
Kazakhstan	327	232	911	12,900	9,230	41,500		
Russia	655	440	1,850	22,900	15,700	63,700		
Turkey	119	82	369	4,210	2,940	12,900		
Total	2,340	1,620	7,490	56,000	38,800	172,000		
All grades:	2,010	1,020	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20,000	50,000	1,2,000		
Albania	2,090	1,370	3,250	18,400	12,100	31,900		
Brazil	2,000		5,250	3,430	2,100	8,840		
China				769	478	2,240		
Finland				9,000	4,800	10,600		
Germany	941	653	3,110	10,200	7,120	33,500		
India	1,570	965	1,980	40,700	24,700	57,100		
Japan	299	210	1,250	3,230	2,280	13,200		
Kazakhstan	1,380	962	2,920	53,200	37,300	117,000		
Mexico				40	30	103		
Oman	494	302	607	11,000	6,110	13,200		
Russia	1,950	1,320	4,280	52,600	36,200	119,000		
South Africa	1,930	1,320 7,680	4,280	32,600	151,000	329,000		
	268	178	479	1,050	705	329,000 1,970		
Sweden		82						
Turkey	119	82	369	5,950	4,060	15,900		

See footnotes at end of table.

TABLE 6-Continued U.S. IMPORTS FOR CONSUMPTION OF FERROCHROMIUM IN 2018, BY GRADE AND COUNTRY OR LOCALITY¹

			December		Ja	anuary-December	r^2
		Gross	Chromium		Gross	Chromium	
		weight	content	Value ³	weight	content	Value ³
	Grade and country or locality	(metric tons)	(metric tons)	(thousands)	(metric tons)	(metric tons)	(thousands)
Zimbabwe					42,900	24,200	45,800
Total		24,600	13,700	33,800	561,000	314,000	799,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²May include revised data that are not broken out by specific month(s).

³Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.

⁴Ferrochromium containing more than 4% carbon.

⁵Ferrochromium containing more than 3% carbon but not more than 4% carbon.

⁶Ferrochromium containing not more than 3% carbon.

TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF CHROMIUM METAL IN 2018, BY GRADE AND BY COUNTRY OR LOCALTY¹

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Dece		January–December ²		
Unwrought powders: Image: China in the second		Gross weight	Value ³		Value ³	
China 214 \$2,360 1,800 \$2 France 19 257 237 India - - 33 261 179 India - - - 40 Korea, Republic of (4) 16 1 Russia 144 1,600 1,820 Switzerland - - 9 Taiwan - - 9 Taiwan - - 9 Total 764 9,660 7,920 1 Brazil - - 1 1 Germany - - 1 1 Ganda - - 1 1 Germany - - 1 1 1 Japan - - 1 1 1 1 1 Other than waste and scrap and unwrought powders: - - 4 1 1 China	· _ ·	(metric tons)	(thousands)	(metric tons)	(thousands)	
France 19 257 237 Germany 33 261 179 India - - 38 Japan - - 38 Japan - - 38 Korea, Republic of (4) 16 1 Russia 144 1,600 1,820 Switzerland - - 9 Taiwan - - 3 United Kingdom 354 5,160 3,820 Total - - 21 Germany - - 21 Germany - - 21 Germany - - 21 Germany - - 4 Taiwan - - 4 United Kingdom 14 135 92 Total - - 4 Taiwan - - 40 France 304 <td< td=""><td>Unwrought powders:</td><td></td><td></td><td></td><td></td></td<>	Unwrought powders:					
		_			\$21,900	
India 38 Japan 60 Korea, Republic of (6) 16 1 Russia 144 1,600 1,820 Switzerland 3 United Kingdom 354 5,160 3,820 Total 764 9,660 7,920 1 Waste and scrap: 3 1 Brazil 2 1 Canada 8 30 50 0 China 1 1 Israel 1 1 Japan 4 1 Total 4 1 Japan 4 1 Total 4 1 Total 4 1 France		19	257	237	3,830	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Germany	33	261	179	2,150	
Korea, Republic of (4) 16 1 Russia Switzerland - - 9 Taiwan - - 9 Taiwan - - 9 Total 354 5,160 3,820 Waste and scrap: - - - 3 Brazil - - - 2 Canada 8 30 50 China - - - 1 Israel - - - 1 Japan - - - 4 Taiwan - - - 4 Total - - - 4 Total 164 3,780 - France - - - </td <td>India</td> <td></td> <td></td> <td>38</td> <td>459</td>	India			38	459	
Russia 144 1,600 1,820 Switzerland 9 Taiwan 3 United Kingdom 354 5,160 3,820 Total 764 9,660 7,920 1 Waste and scrap: 2 1 Germany 21 1 Germany 1 <td< td=""><td>Japan</td><td></td><td></td><td>(4)</td><td>26</td></td<>	Japan			(4)	26	
Switzerland - - 9 Taiwan - - 3 United Kingdom 354 5,160 3,820 Total 764 9,660 7,920 1 Brazil - - 2 Canada 8 30 50 China - - 1 Israel - - 1 Israel - - 4 Taiwan - - 6 United Kingdom 14 135 92 Total 22 164 177 Other than waste and scrap and unwrought powders: - - 4 Canada - - 4 177 Other than waste and scrap and unwrought powders: - - 4 177 China - - - 40 177 Other than waste and scrap and unwrought powders: - - - 40 France <td< td=""><td>Korea, Republic of</td><td>(4)</td><td>16</td><td>1</td><td>53</td></td<>	Korea, Republic of	(4)	16	1	53	
Taiwan - - 3 United Kingdom 354 $5,160$ $3,820$ Total 764 $9,660$ $7,920$ 1 Waste and scrap: - - 2 Brazil - - 2 Canada 8 30 50 China - - 1 Japan - - 4 Taiwan - - 4 Taiwan - - 4 Taiwan - - 4 Taiwan - - - Other than waste and scrap and unwrought powders: 22 164 177 Other than waste and scrap and unwrought powders: - - - 4 China 1 64 3,780 - - 40 France 304 4,010 2,550 - - - 40 Japan - - - (4) 1 1 1 - - - - 40 <	Russia	144	1,600	1,820	16,800	
United Kingdom 354 5,160 3,820 Total 764 9,660 7,920 1 Waste and scrap: 2 Brazil 2 Ganada 8 30 50 China 1 Brazil 1 Germany 1 Harael 4 Total 4 United Kingdom 14 135 92 Total 4 Other than waste and scrap and unwrought powders: 4 Canada 40 1 64 3,780 Finand 40 1 14 19 14 Licchtenstein 40 1 14 13 1 Poland	Switzerland			9	65	
Total 764 9,660 7,920 1 Waste and scrap: 2 Brazil 2 Canada 8 30 50 China 21 Germany 1 Israel 1 United Kingdom 14 135 92 Total 14 135 92 Total 22 164 177 Other than waste and scrap and unwrought powders: 4 Canada 4 China 1 64 3,780 Finland 40 France 304 4,010 2,550 Germany 8 301 462 Italy (4) Isechtenstein (4) New Zealand 1 6	Taiwan			3	77	
Total 764 9,660 7,920 1 Waste and scrap: 2 2 2 2 2 2 2 2 1 Israel 1 <td>United Kingdom</td> <td>354</td> <td>5,160</td> <td>3,820</td> <td>54,600</td>	United Kingdom	354	5,160	3,820	54,600	
Waste and scrap: -2 Brazil -2 Canada 8 30 50 China -21 Germany -21 Japan 4 Taiwan 6 United Kingdom 14 135 92 Total 0ther than waste and scrap and unwrought powders: 4 Canada 40 177 0 Other than waste and scrap and unwrought powders: 40 177 Other than waste and scrap and unwrought powders: 40 1 1 64 3.780 Finland 40 1 1 62 1		764	9,660	7,920	100,000	
Brazil 2 Canada 8 30 50 China -21 Germany - 1 Israel 1 Taiwan 4 China 6 United Kingdom 14 135 92 Total 4 China 4 China 4 China 4 China 4 China 4 Prance 40 France 40 Japan 1 19 14 Liechtenstein Malaysia 2.940 Spain 31					· · · · ·	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				2	6	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		- 8	30	50	260	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				21	314	
Israel (4) Japan (4) Taiwan (4) United Kingdom 14 135 92 Total 22 164 177 Other than waste and scrap and unwrought powders: 4 China 4 Finland 40 France 304 4,010 2,550 Germany 8 301 462 Ialy (4) Japan 1 19 14 Licchtenstein (4) Malaysia (4) Malaysia (4) Poland 1 6 1 Russia 2,940 Spain 31 Taiwan 107 Mited Kingdom 117 Total 215				1	17	
Japan4Taiwan4Taiwan6United Kingdom1413592Total22164177Other than waste and scrap and unwrought powders:4Canada4Finland40France3044,0102,550Germany8301462Ialy(4)Japan11914Liechtenstein(4)Malaysia(4)New Zealand(4)131Poland31Taiwan31Taiwan31Total3154,4209,940All grades:40France22,9403244,270Germany41563642India40					3	
Taiwan 6 United Kingdom 14 135 92 Total 22 164 177 Other than waste and scrap and unwrought powders: 4 Canada 4 China 1 64 3,780 Finland 40 France 304 4,010 2,550 Germany 8 301 462 Italy -4 Japan 1 19 14 Liechtenstein -4 Malaysia New Zealand -1 6 1 Poland 1 6 1 1 Russia 31 31 United Kingdom 117 17 Total 315 4,420 9,940 All grades: 10 11 Brazil					65	
United Kingdom 14 135 92 Total 22 164 177 Other than waste and scrap and unwrought powders: - - 4 China 1 64 3,780 Finland - - 40 France 304 4,010 2,550 Germany 8 301 462 Ialy - - - Japan 1 19 14 Licchtenstein - - - Malaysia - - - (4) New Zealand - 1 6 1 Poland 1 6 1 1 Total 1 6 1 1 Spain - - - 31 Taiwan - - - 117 Total 315 4,420 9,940 All grades: - - - 2					122	
Total 22 164 177 Other than waste and scrap and unwrought powders: 4 China 1 64 3,780 Finland 40 France 304 4,010 2,550 Germany 8 301 462 Italy (4) Japan 1 19 14 Liechtenstein (4) Malaysia (4) New Zealand (4) 13 1 Poland 1 6 1 Russia 2,940 Spain 31 Taiwan 31 United Kingdom 117 Total 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41<		- 14	135		901	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	· · · · · · · · · · · · · · · · · · ·				1,690	
Canada 4 China 1 64 3,780 Finland 40 France 304 4,010 2,550 Germany 8 301 462 Italy (4) Japan 1 19 14 Liechtenstein (4) Malaysia (4) New Zealand (4) 13 1 Poland 1 6 1 Russia 2,940 Spain 31 Taiwan 31 Taiwan 117 Total 315 4,420 9,940 All grades: 2 Granda 8 30 54 China 40 France 324			104	177	1,090	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		_		4	315	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$					14,300	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		_			277	
$\begin{tabular}{ c c c c c c c } \hline Germany & 8 & 301 & 462 \\ \hline Italy & & & (4) \\ \hline Japan & 1 & 19 & 14 \\ \hline Liechtenstein & & & (4) \\ \hline Malaysia & & & (4) \\ \hline Malaysia & & & (4) \\ \hline Mew Zealand & (4) & 13 & 1 \\ \hline Poland & 1 & 6 & 1 \\ \hline Russia & & & 2,940 \\ \hline Spain & & & 2,940 \\ \hline Spain & & & 31 \\ \hline Taiwan & & & 31 \\ \hline Taiwan & & & 31 \\ \hline Taiwan & & & 31 \\ \hline Total & 315 & 4,420 & 9,940 \\ \hline All grades: & & & & \\ \hline Brazil & & & 2 \\ \hline Canada & 8 & 30 & 54 \\ \hline China & 215 & 2,430 & 5,600 \\ \hline Finland & & & 40 \\ \hline France & 324 & 4,270 & 2,790 \\ \hline Germany & 41 & 563 & 642 \\ \hline India & & & 38 \\ \hline Israel & & & 38 \\ \hline Israel & & & (4) \\ \hline Italy & & & (4) \\ \hline \hline \end{tabular}$					29,400	
Italy (4) Japan 1 19 14 Liechtenstein (4) Malaysia (4) New Zealand (4) 13 1 Poland 1 6 1 Russia 2,940 Spain 31 Taiwan 31 United Kingdom 117 Total 315 4,420 9,940 All grades: 2 Ganada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel 38 Israel (4)			,			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	· · · ·	_			3,960	
Liechtenstein (4) Malaysia (4) New Zealand (4) 13 1 Poland 1 6 1 Russia 2,940 Spain 31 Taiwan 31 United Kingdom 117 Total 315 4,420 9,940 All grades: 2 Canada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel 38 Israel (4)					3	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	1	_			472	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		-			3	
$\begin{tabular}{ c c c c c c c c c c c } \hline Poland & 1 & 6 & 1 \\ \hline Russia & & & 2,940 \\ \hline Spain & & & 31 \\ \hline Taiwan & & & 31 \\ \hline Taiwan & & & 3 \\ \hline United Kingdom & & & 3 \\ \hline United Kingdom & & & 117 \\ \hline Total & 315 & 4,420 & 9,940 \\ \hline All grades: & & & & \\ \hline Brazil & & & 2 \\ \hline Canada & 8 & 30 & 54 \\ \hline China & 215 & 2,430 & 5,600 \\ \hline Finland & & & 40 \\ \hline France & 324 & 4,270 & 2,790 \\ \hline Germany & 41 & 563 & 642 \\ \hline India & & & 38 \\ \hline Israel & & & (4) \\ \hline Italy & & & (4) \\ \hline \end{tabular}$		_			15	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$					60	
Spain 31 Taiwan 3 United Kingdom 3 Total 315 4,420 9,940 All grades: 315 4,420 9,940 Brazil 2 Canada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel 38 Italy 40		1	6		6	
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$					27,200	
United Kingdom 117 Total 315 4,420 9,940 All grades: 2 Brazil 2 Canada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel 38 Italy 40					190	
Total 315 4,420 9,940 All grades:					58	
All grades: Brazil 2 Canada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel 40 Italy 40					1,620	
Brazil 2 Canada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel 40 Italy 38	Total	315	4,420	9,940	77,900	
Canada 8 30 54 China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel (4) Italy (4)	· · · · ·	_				
China 215 2,430 5,600 Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel (4) Italy (4)	Brazil			2	6	
Finland 40 France 324 4,270 2,790 Germany 41 563 642 India 38 Israel (4) Italy (4)	Canada	8	30	54	575	
France 324 4,270 2,790 Germany 41 563 642 India 38 Israel (4) Italy (4)	China	215	2,430	5,600	36,500	
Germany 41 563 642 India 38 Israel (4) Italy (4)	Finland			40	277	
India 38 Israel (4) Italy (4)	France	324	4,270	2,790	33,200	
Israel (4) Italy (4)	Germany	41	563	642	6,130	
Italy (4)	India			38	459	
Italy (4)					3	
· · ·					3	
		1	19		563	
Korea, Republic of (4) 16 1	1				53	
Liechtenstein (4)		-			3	

See footnotes at end of table.

TABLE 7-Continued U.S. IMPORTS FOR CONSUMPTION OF CHROMIUM METAL IN 2018, BY GRADE AND BY COUNTRY OR LOCALTY¹

	December		January–December ²		
	Gross weight	Value ³	Gross weight	Value ³	
Grade and country or locality	(metric tons)	(thousands)	(metric tons)	(thousands)	
Malaysia			(4)	15	
New Zealand	(4)	13	1	60	
Poland	1	6	1	6	
Russia	144	1,600	4,760	44,100	
Spain			31	190	
Switzerland			9	65	
Taiwan			12	256	
United Kingdom	368	5,300	4,030	57,100	
Total	1,100	14,200	18,000	180,000	

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²May include revised data that are not broken out by specific month(s).

³Customs import value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.

⁴Less than ¹/₂ unit.

TABLE 8
U.S. STAINLESS STEEL TRADE, BY PRODUCT, IN 2018 ¹

	Dece	mber	January–E	December ²
	Gross weight	Value ³	Gross weight	Value ³
Stainless steel product	(metric tons)	(thousands)	(metric tons)	(thousands)
Exports:				
Ingot	1,550	\$8,700	27,100	\$109,000
Flat-rolled (width > 600 mm)	19,200	50,300	444,000	1,060,000
Flat-rolled (width < 600 mm)	4,290	22,500	80,500	377,000
Bars and rods in irregular coils	309	875	11,200	30,900
Other bars and rods	1,960	19,900	35,500	322,000
Wire	598	8,360	10,200	130,000
Tubes, pipes, hollow profiles	2,140	31,000	41,500	399,000
Total	30,100	142,000	650,000	2,430,000
Stainless steel scrap	43,100	28,700	778,000	327,000
Grand total	73,200	170,000	1,430,000	2,760,000
Imports:				
Ingot	9,620	21,000	164,000	456,000
Flat-rolled (width > 600 mm)	21,400	56,500	339,000	868,000
Flat-rolled (width < 600 mm)	3,640	13,900	63,700	230,000
Bars and rods in irregular coils	1,980	7,460	36,700	137,000
Other bars and rods	11,700	45,900	149,000	597,000
Wire	3,570	14,100	50,900	220,000
Tubes, pipes, hollow profiles	10,800	77,100	156,000	938,000
Total	62,700	236,000	959,000	3,450,000
Stainless steel scrap	15,100	12,400	329,000	345,000
Grand total	77,800	248,000	1,290,000	3,790,000

¹Data are rounded to no more than three significant digits; may not add to totals shown. ²May include revised data that are not broken out by specific month(s). ³Export value is free alongside ship. Import value is Customs import value, which generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other incurred in bringing the merchandise into the United States.